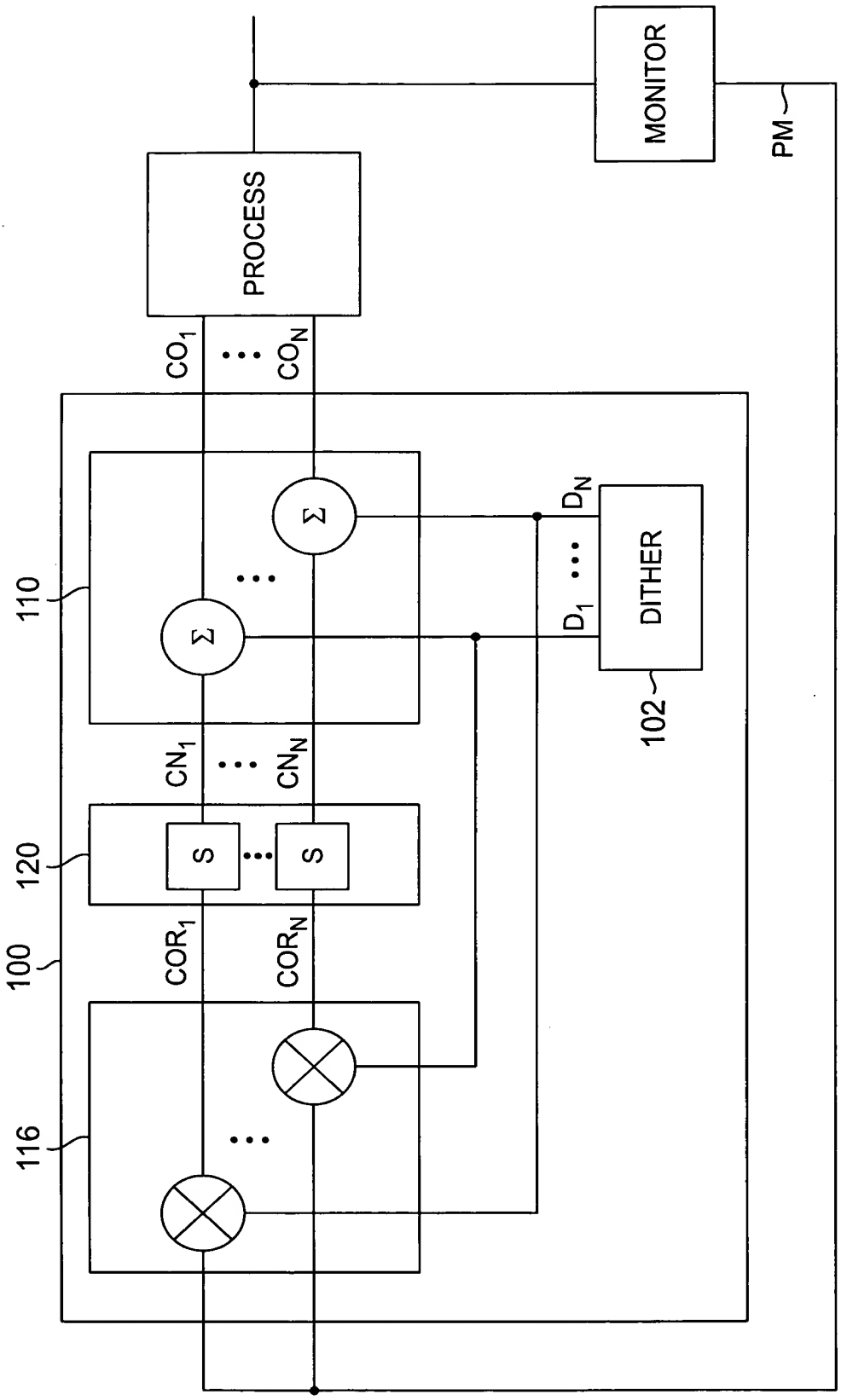
MONITOR
PM
PROCESS
CO1
CON
110
Σ
Σ
DN
D1
DITHER
102
CN1
CNN
120
S
S
COR1
CORN
100
116

FIG. 1

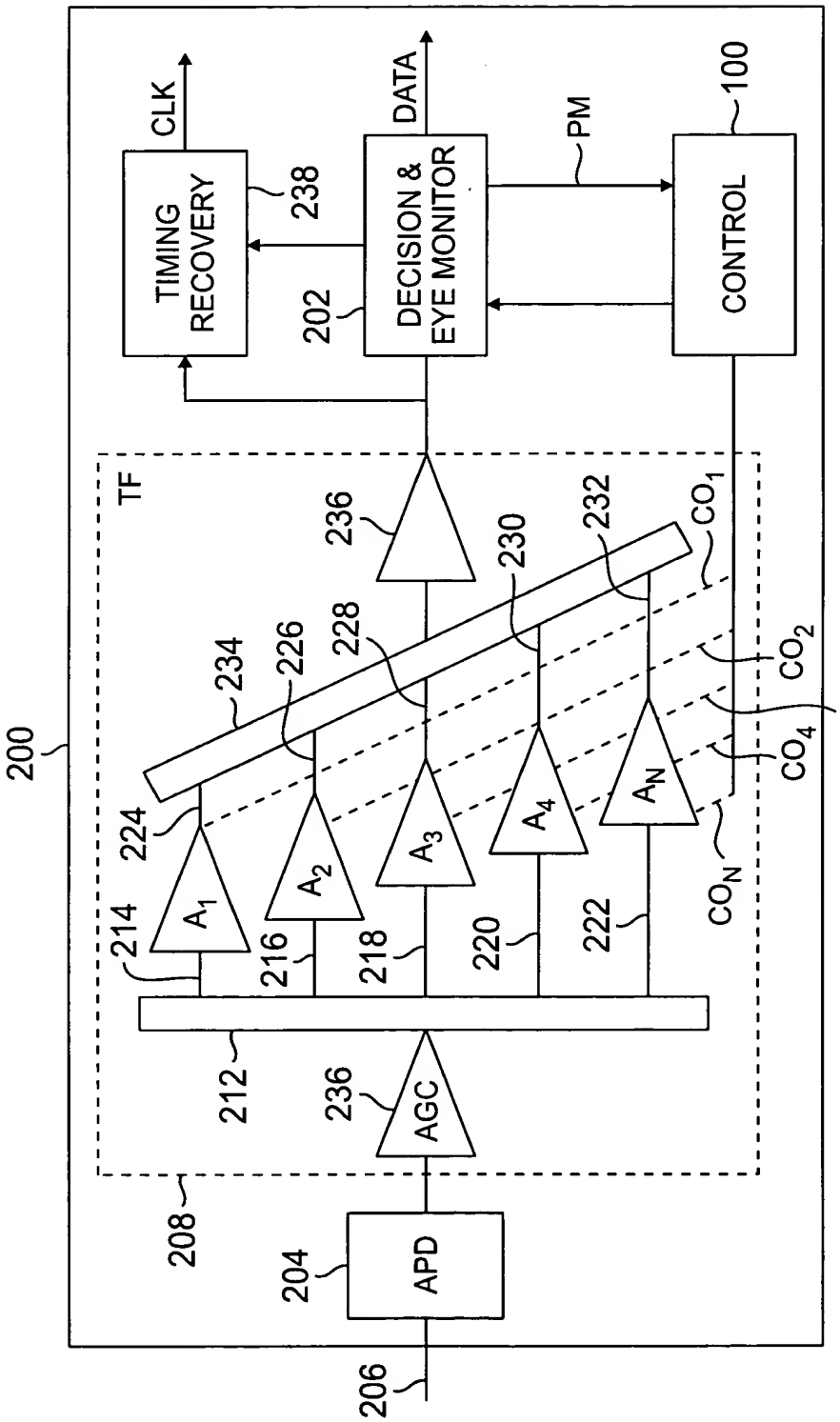
200
206
APD
204
208
AGC
236
212
TF
214
216
218
220
222
224
226
228
230
232
234
236
A_1
A_2
A_3
A_4
A_N
CO_1
CO_2
CO_3
CO_4
CO_N
TIMING RECOVERY
238
CLK
202
DECISION & EYE MONITOR
DATA
PM
CONTROL
100

FIG. 2

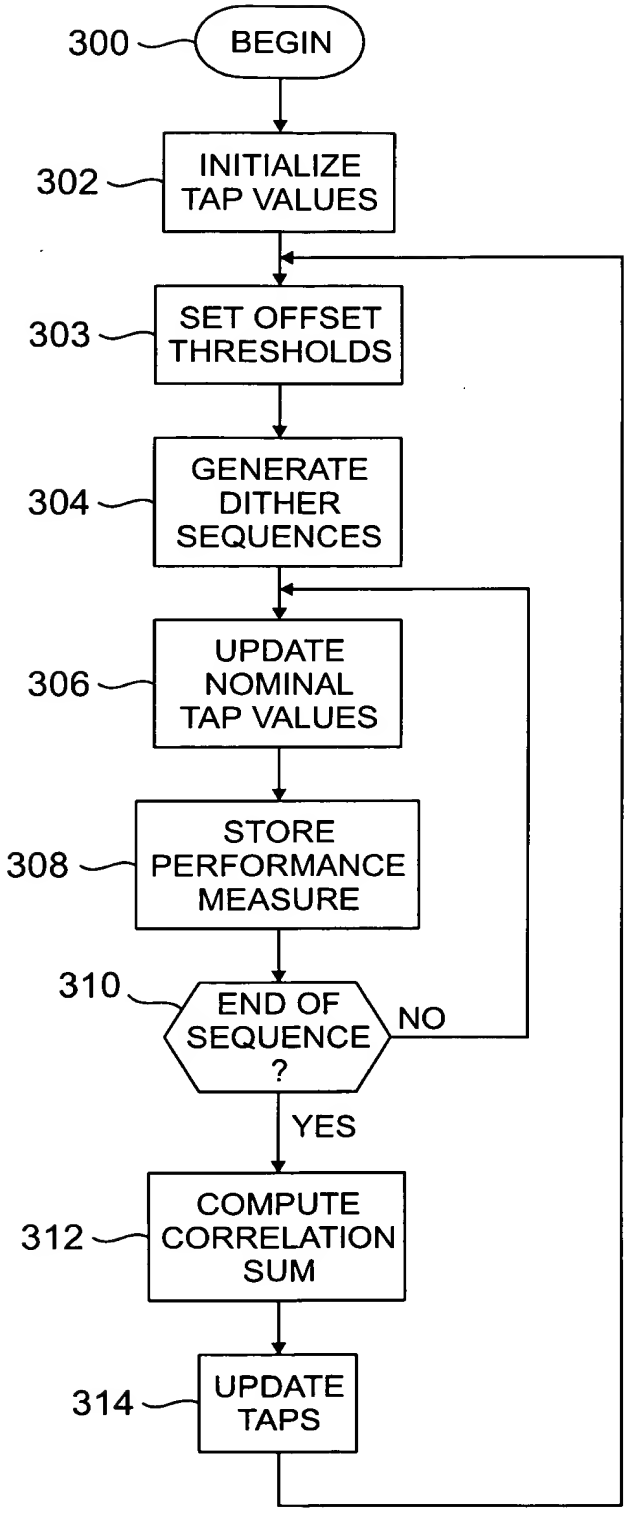
300
BEGIN
302
INITIALIZE TAP VALUES
303
SET OFFSET THRESHOLDS
304
GENERATE DITHER SEQUENCES
306
UPDATE NOMINAL TAP VALUES
308
STORE PERFORMANCE MEASURE
310
END OF SEQUENCE ?
NO
YES
312
COMPUTE CORRELATION SUM
314
UPDATE TAPS

FIG. 3

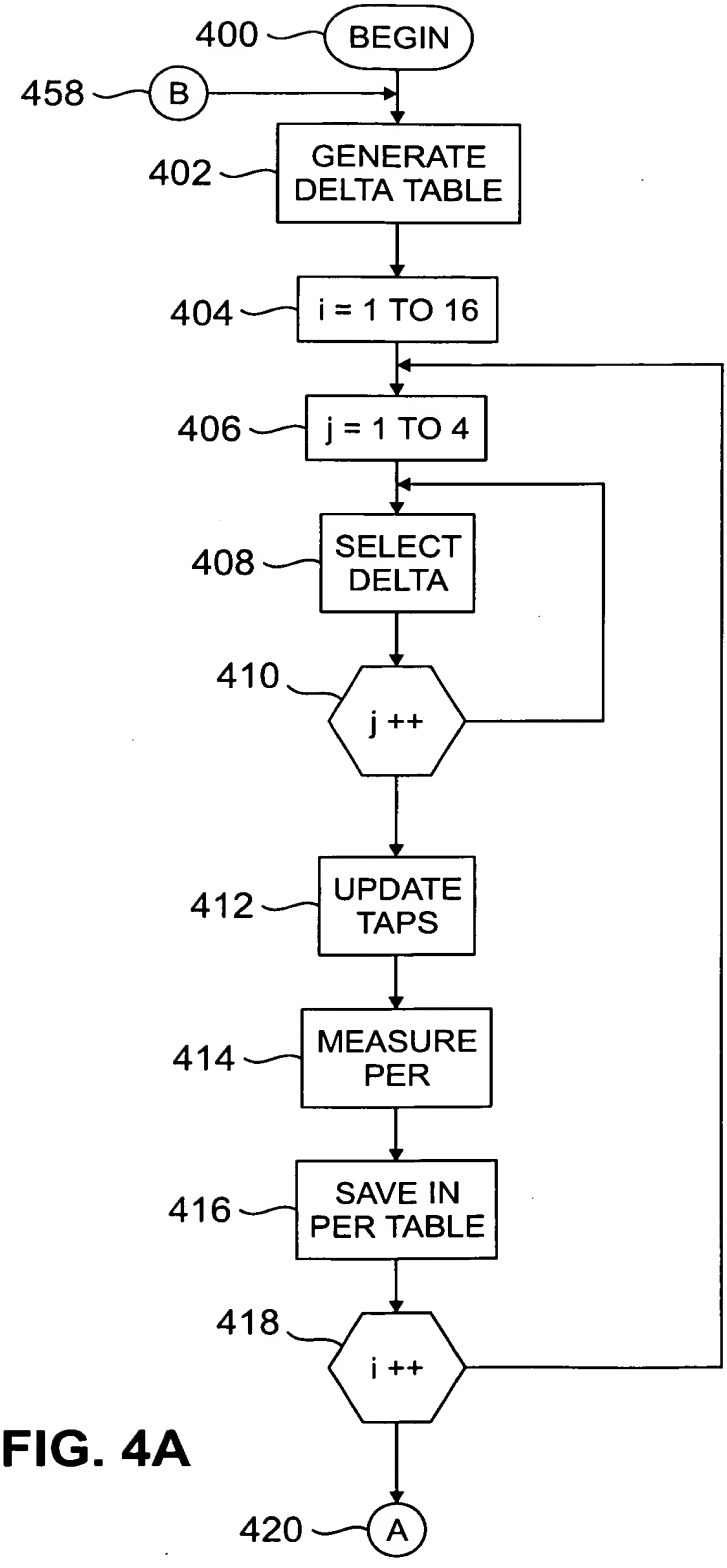

FIG. 4A

Docket No. 050041

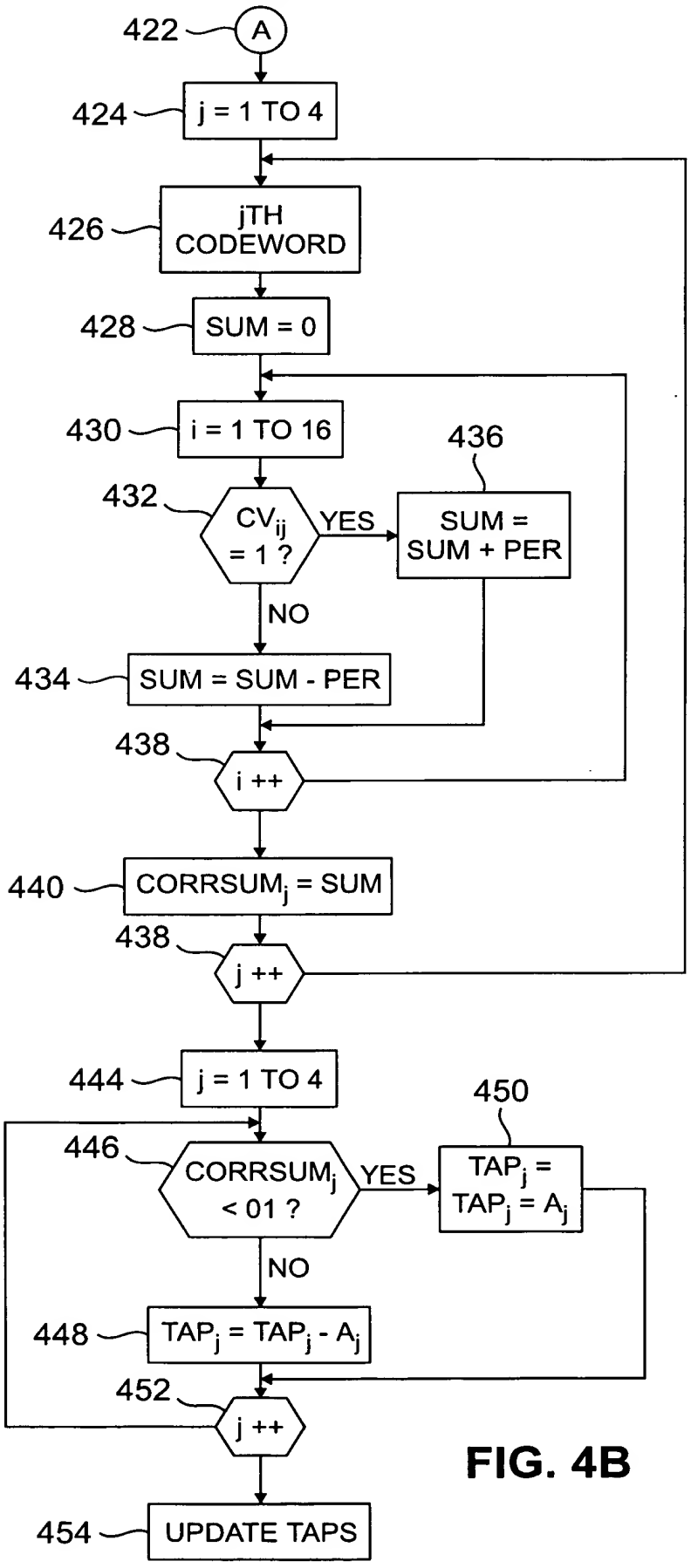
422
A
424
j = 1 TO 4
426
jTH CODEWORD
428
SUM = 0
430
i = 1 TO 16
436
432
CV$_{ij}$ = 1 ?
YES
SUM = SUM + PER
NO
434
SUM = SUM - PER
438
i ++
440
CORRSUM$_j$ = SUM
438
j ++
444
j = 1 TO 4
450
446
CORRSUM$_j$ < 01 ?
YES
TAP$_j$ = TAP$_j$ = A$_j$
NO
448
TAP$_j$ = TAP$_j$ - A$_j$
452
j ++
454
UPDATE TAPS

FIG. 4B

FIG. 5A

$+\Delta_1$	$-\Delta_1$
$+\Delta_2$	$-\Delta_2$
⋮	⋮
$+\Delta_j$	$-\Delta_j$

Patent Application Publication Oct. 15, 2009 Sheet 6 of 6 US 2009/0257512 A1

i = 16

j = 4

1	0	0	1	1	0	0	1	0	1	1	0	0	1	1
1	0	0	1	0	1	1	0	0	1	1	0	1	0	0
1	0	0	1	0	1	1	0	1	0	0	1	0	1	1
1	0	1	0	0	1	0	1	1	0	1	0	0	1	0

FIG. 5B

i = 16

PER_1	PER_2		PER_{16}

FIG. 5C